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57690 7590 07/01/2008 HAMILTON, BROOK, SMITH & REYNOLDS, P.C. 530 VIRGINIA ROAD			EXAMINER	
			WOZNIAK, JAMES S	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)		
Office Action Commence		10/019,450	CHANDRAN ET AL.		
	Office Action Summary	Examiner	Art Unit		
		JAMES S. WOZNIAK	2626		
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) 又	Responsive to communication(s) filed on 14 Fe	ebruary 2008.			
	· · · · · · · · · · · · · · · · · · ·	action is non-final.			
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٠,١	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
	·	7 pante Quayie, 1000 0.2. 1.1, 10	3 3. 3 . 2 . 3.		
Dispositi	on of Claims				
 4) Claim(s) 1-60 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-60 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Application Papers					
9) ☐ The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 14 February 2008 is/are: a) ☑ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority u	ınder 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
2) Notic 3) Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te		

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DETAILED ACTION

Response to Amendment

- 1. In response to the office action from 11/9/2007, the applicant has submitted an amendment, filed 2/14/2008, amending independent claims 1 and 31, while arguing to traverse the art rejection based on the amended limitation regarding adjusting a gain parameter using a feedback loop based on a detected over amplification or over suppression of a speech signal (Amendment, Pages 15-17). The applicant's arguments have been fully considered but are moot with respect to the new grounds of rejection necessitated by the amended claims and further in view of Tackin et al (U.S. Patent: 7,092,365).
- 2. In response to the amended Figs. 1-2, the examiner has withdrawn the previous drawing objection.
- 3. In response to amended claim 1, the examiner has withdrawn the previous 35 U.S.C. 112, first paragraph rejection.

Response to Arguments

4. With respect to the independent claims and their associated dependent claims, the applicant argues that Jarvinen et al (U.S. Patent: 5,946,651) fails to teach adjusting a gain

parameter using a feedback loop based on a detected over amplification or over suppression of a speech signal (Amendment, Pages 15-17). These arguments have fully considered, but are moot with respect to the new grounds of rejection necessitated by the amended claims and further in view of Tackin et al (U.S. Patent: 7,092,365).

The art rejection of claims 25-30 and 55-60 is traversed for reasons similar to independent claims 1 and 31 due to their noted dependency (*Page 18*). In response, the examiner notes that the aforementioned claims are part of independent claim sets, which do not contain the added limitations of claims 1 and 31. As such, the applicant's arguments are moot with respect to these claims and the previous rejection is maintained below.

Requirement for Information

5. Applicant and the assignee of this application are required under 37 CFR 1.105 to provide the following information that the examiner has determined is reasonably necessary to the examination of this application.

In response to this requirement, please provide copies of each publication which any of the applicants authored or co-authored and which describe the disclosed subject matter of the present claimed invention, specifically the following reference:

R. Chandran, *Coded Domain Enhancement of Compressed Speech*, Master's Thesis, University of Notre Dame, 1999.

This paper was known to the inventors as per their "Compressed Domain Noise Reduction and Echo Suppression for Network Speech Enhancement" reference (see Page 13, reference section, item 4) (see PTO-892), deals with subject matter similar to that recited in the

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present disclosure (as per its title and inclusion in a publication directed to similar subject

matter), and was authored by one of the present inventors, thus, its submission is required.

This requirement is an attachment of the enclosed Office action. A complete reply to the

enclosed Office action must include a complete reply to this requirement. The time period for

reply to this requirement coincides with the time period for reply to the enclosed Office action.

Claim Rejections - 35 USC § 112

6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

7. **Claims 11-24** are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for

failing to particularly point out and distinctly claim the subject matter which applicant regards as

the invention. The dependent claims recite a multitude of processes that seem to be associated

with a various claim 1 elements, but are noted as being performed by a processor (which lacks

antecedent basis). It is uncertain whether these functions are actually performed by a processor

or one of the elements of claim 1. Based on the independent claims, these associated steps are

assumed to not be associated with a processor, and the claims will be interpreted thusly for the

application of the prior art of record.

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Claim Rejections - 35 USC § 103

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. Claims 1-6, 10-11, 15, 24, 31-36, 38, 40-41, 45, and 54 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jarvinen et al (U.S. Patent: 5,946,651) in view of Yajima et al (U.S. Patent: 5,873,058) and further in view of Tackin et al (U.S. Patent: 7,092,365).

With respect to Claims 1 and 31, Jarvinen discloses:

In a communications system for transmitting digital signals using a compression code comprising a predetermined plurality of parameters including a first parameter, said parameters representing an audio signal comprising a plurality of audio characteristics including a first characteristic, said first parameter being related to said first characteristic (receiving transmitted coded speech parameters at a decoder including LPC coefficients and a gain parameter, Col. 6, Lines 16-58) said compression code being decodable by a plurality of decoding steps including a first decoding step for decoding said parameters related to said first characteristic, an apparatus for adjusting the first characteristic comprising:

A decoder responsive to said digital signals to read at least said first parameter and to A generator for generating at least a first parameter value derived from said first parameter (means for decoding and generating excitation parameters having associated gain factors, Col. 6, Lines 16-58);

Responsive to said digital signals and said first parameter value a second generator to generate an adjusted first parameter value representing an adjustment of said first characteristic (adjusting a gain factor with a scaling factor, Col. 7, Line 58- Col. 8, Line 61); and

Responsive to said adjusted first parameter value a replacement unit to derive an adjusted first parameter and to replace said first parameter with said adjusted first parameter (means for replacing an excitation parameter and associated gain with a perceptually adjusted excitation parameter, Col. 7, Line 34- Col. 8, Line 61).

Jarvinen does not teach the concept of adjusting a gain parameter over a network prior to reception at a receiver, however Yajima discloses the concept of speech signal gain parameter adjustment at a relay node (Col. 9, Line 35- Col. 10, Line 25; Col. 27, Line 40- Col. 29, Line 10; Col. 31, Lines 12-53; and Figs. 13, partial decoder, Element 108 and 17-18 and output of gain adjusted data on a transmission line).

Jarvinen and Yajima are analogous art because they are from a similar field of endeavor in speech decoding utilizing adaptive gain control. Thus, it would have been obvious to a person of ordinary skill in the art, at the time of invention, to modify the teachings of Jarvinen with the concept of gain adjustment at a relay node as taught by Yajima in order to implement gain adjustment at a means that is capable of connecting two different types of networks (Col. 3, Lines 25-27) and coding voice efficiently (Col. 7, Lines 25-32), while also inherently decreasing the amount of processing performed at a receiver.

Although Jarvinen teaches the concept of gain control and Yajima teaches that gain control can be performed in the compressed domain, Jarvinen and Yajima fail to explicitly teach a further gain adjustment step wherein a detection of over or under amplification is performed

and a feedback loop is utilized. Tackin, however, recites the comparison of a gain-adjusted speech signal to a threshold means for detecting over/under amplification and the use of a feedback loop in further automatic gain control (Fig. 8A; and Col. 22, Line 7- Col. 23, Line 15; and input signal in the compressed domain, Col. 15, Lines 52-53).

Jarvinen, Yajima, and Tackin are analogous art because they are from a similar field of endeavor in speech processing utilizing adaptive gain control. Thus, it would have been obvious to a person of ordinary skill in the art, at the time of invention, to modify the teachings of Jarvinen in view of Yajima with the AGC concept taught by Tackin in order to ensure that voice signals are maintained at an acceptable volume (*Tackin, Col. 22, Lines 8-10*).

With respect to Claims 2 and 32, Jarvinen discloses:

The first characteristic comprises a level of the audio signal (gain factor that is indicative of a desired speech signal level, Col. 5, Line 25- Col. 6, Line 32; and Col. 12, Lines 24-33).

With respect to Claims 3 and 33, Yajima further discloses:

Yajima teaches avoiding synthesizing filter processing for a normal voice signal that would not require gain adjustment (Col. 22, Lines 1-24; and adjusting a gain speech parameter, Col. 9, Line 35- Col. 10, Line 25; Col. 27, Line 40- Col. 29, Line 10; Col. 31, Lines 12-53).

With respect to **Claims 4 and 34**, Yajima teaches synthesizing filter processing, as applied to Claims 3 and 33.

With respect to Claims 5 and 35, Jarvinen discloses:

The compression code comprises a linear predictive code (LP coefficients, Col. 5, Lines 25-57).

With respect to Claims 6 and 36, Jarvinen discloses:

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The compression code comprises regular pulse excitation long term prediction code (LTP prediction coefficients, Col. 5, Lines 25-57).

With respect to Claims 10 and 40, Yajima further discloses gain adjustment implementation at a relay node situated on a network that would inherently be capable of receiving near and far end speech from various transmission nodes connected to the network (Fig. 16, Element 404; Col. 9, Line 35- Col. 10, Line 25; Col. 27, Line 40- Col. 29, Line 10; Col. 31, Lines 12-53).

With respect to Claims 11 and 41, Jarvinen discloses:

The processor test the adjusted first parameter value for an overflow and underflow condition before deriving the adjusted first parameter (multiple threshold comparisons, Col. 7, Line 58- Col. 8, Line 61).

With respect to **Claims 15 and 45**, Jarvinen discloses performing the decoding processing, as applied to Claim 1, on a plurality of parameters from a series of time frames (Col. 6, Lines 16-58; and Col. 12, Lines 52-54).

With respect to Claims 24 and 54, Jarvinen further discloses:

The processor performs at least the first decoding step to generate decoded signals related to the first characteristic of the audio signal (recovering speech parameters using a speech decoder, Col. 6, Lines 16-26).

With respect to **Claim 38**, Jarvinen discloses the use of the CELP coding standard (Col. 5, Lines 25-35).

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10. Claims 8-9, 12, 16, 18, 20-23, 39, 42, 46, 48, and 50-53 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jarvinen et al in view of Yajima, in view of Tackin et al and further in view of Yasunaga et al (U.S. Patent: 6,330,534).

With respect to **Claim 8**, Jarvinen in view of Yajima and further in view of Tackin discloses the speech decoding apparatus utilizing perceptual gain scaling, as applied to Claim 1. Jarvinen in view of Yajima and further in view of Tackin does not explicitly teach the use of the algebraic CELP coding standard, however Yasunaga teaches the use of said standard (*Col. 3*, *Lines 42-51*).

Jarvinen, Yajima, Tackin, and Yasunaga are analogous art because they are from a similar field of endeavor in speech decoding utilizing adaptive gain control. Thus, it would have been obvious to a person of ordinary skill in the art, at the time of invention, to modify the teachings of Jarvinen in view of Yajima with the ACELP standard taught by Yasunaga in order to provide a standard that reduces the complexities of computing coding distortions (Yasunaga, Col. 3, Lines 42-51).

With respect to **Claim 9**, Jarvinen further teaches the gain scaling factor as applied to claim 1.

With respect to **Claims 12 and 42**, Jarvinen in view of Yajima and further in view of Tackin discloses the speech decoding apparatus utilizing perceptual gain scaling, as applied to Claims 11 and 41. Jarvinen in view of Yajima and further in view of Tackin does not teach that a decoder derives an adjusted speech parameter by quantizing an adjusted speech parameter, however Yasunaga discloses a process for adjusting a gain factor applied to a speech parameter by quantizing an adjusted target speech parameter (Col. 30, Line 42- Col. 31, Line 9).

Jarvinen, Yajima, Tackin, and Yasunaga are analogous art because they are from a similar field of endeavor in speech decoding utilizing adaptive gain control. Thus, it would have been obvious to a person of ordinary skill in the art, at the time of invention, to modify the teachings of Jarvinen in view of Yajima with the gain adjusting process taught by Yasunaga in order to provide a means for minimizing a quantization error between target and decoded speech parameters (Yasunaga, Col. 30, Line 42 - Col. 31, Line 9).

Claims 16 and 46 contain subject matter similar to Claims 12, 15, 42, and 45 and thus, are rejected for the same reasons.

Claims 18 and 48 contains subject matter similar to Claim 12, and thus, is rejected for the same reasons.

With respect to **Claims 20 and 50**, Yasunaga further discloses scalar quantization performed using a predetermined quantization table (Col. 12, Lines 10-21).

With respect to **Claims 21 and 51**, Yasunaga further discloses subframe-based speech processing (Col. 1, Line 33- Col. 2, Line 9).

With respect to Claims 22 and 52, Yasunaga further discloses:

The processor replaces the first parameter with the adjusted first parameter for a first subframe before processing a subframe following the first subframe (adjusting gains of processing frames within a speech frame on a frame-by-frame basis, Col. 28, Lines 40-50; and Col. 30, Line 42- Col. 31, Line 9).

With respect to **Claims 23 and 53**, Yasunaga further discloses adjusting a gain of a current processing frame based on a gain of a previous processing frame (*Col. 30, Line 42- Col. 31, Line 9*), and subframe-based speech processing, as applied to Claims 21 and 51.

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Claim 39 contains subject matter similar to Claims 9 and 21, and thus, is rejected for the same reasons.

11. **Claims 7 and 37** are rejected under 35 U.S.C. 103(a) as being unpatentable over Jarvinen et al in view of Yajima et al in view of in view of Tackin et al in view of Yasunaga et al (U.S. Patent: 6,330,534) and further in view of Crouse et al (U.S. Patent: 4,899,384).

With respect to **Claims 7 and 37**, Jarvinen et al in view of Yajima in view of Tackin and further in view of Yasunaga teaches the speech decoding apparatus utilizing gain scaling, subframe based processing, and quantization processing, as applied to Claims 6, 21, 36, and 51. Jarvinen et al in view of Yajima in view of Tackin and further in view of Yasunaga does not specifically suggest utilizing a maximum absolute value of a speech parameter to derive a speech scaling factor, however Crouse teaches the use of such a value (*Col. 5, Lines 5-16*).

Jarvinen, Yajima, Tackin, Yasunaga, and Crouse are analogous art because they are from a similar field of endeavor in speech coding systems. Thus, it would have been obvious to a person of ordinary skill in the art, at the time of invention, to modify the teachings of Jarvinen et al in view of Yajima in view of Tackin and further in view of Yasunaga with the maximum absolute value parameter taught by Crouse in order to implement a speech coded method having reduced peak information that is consistent with a desired speech output quality (Crouse, Col. 4, Lines 1-11).

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12. Claims 13-14, 17, 19, 43-44, 47, and 49 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jarvinen et al in view of Yajima et al in view of Tackin et al in view of Yasunaga et al, and further in view of Swaminathan et al (U.S. Patent: 5,751,903).

With respect to **Claims 13, 17, 19, 43, 47, and 49,** Jarvinen et al in view of Yajima in view of Tackin and further in view of Yasunaga teaches the speech decoding apparatus utilizing perceptual gain scaling and quantization processing, as applied to Claims 12, 16, 18, 42, 46, and 48. Jarvinen et al in view of Yajima in view of Tackin and further in view of Yasunaga does not teach the use of differential scalar quantization, however Swaminathan discloses the use of such a quantization during speech coding (*Col. 10, Lines 48-56*).

Jarvinen, Yajima, Tackin, Yasunaga, and Swaminathan are analogous art because they are from a similar field of endeavor in speech coding systems. Thus, it would have been obvious to a person of ordinary skill in the art, at the time of invention, to modify the teachings of Jarvinen et al in view of Yajima in view of Tackin and further in view of Yasunaga with the differential scalar quantization taught by Swaminathan in order to implement a means for quantizing speech parameters that requires a reduced number of bits (Swaminathan, Col. 8, Lines 65-98).

With respect to **Claims 14 and 44**, Yasunaga further discloses the use of a feedback loop having a speech parameter quantizer (Col. 30, Line 42- Col. 31, Line 9; and Fig. 16), while Swaminathan discloses the use of differential scalar quantization as applied to Claims 13 and 33.

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13. Claims 25-30 and 55-60 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yajima et al (U.S. Patent: 5,873,058) in view of in view of the Applicants' Admitted Prior Art (AAPA).

With respect to Claims 25 and 55, Yajima discloses:

A transmitter transmitting digital signals using a compression code comprising a predetermined plurality of parameters including a first parameter, said parameters representing an audio signal comprising a plurality of audio characteristics including a first characteristic, said first parameter being related to said first characteristic (transmission node that outputs a coded voice signal, Col. 16, lines 52-60; wherein voice parameters comprise CELP coded speech and associated gain data, Col. 1, Line 33- Col. 2, Line 7; and Col. 9, Lines 52-57) wherein said compression code being decodable by a plurality of decoding steps including a first decoding step for decoding said parameters related to said first characteristic (decodable speech parameters including a step for extracting voice parameters from a voice code signal, Col. 9, Line 35- Col. 10, Line 25; Col. 21, Lines 39-50); and

A processor responsive to said second bits to adjust said first bits and said second bits, whereby said first characteristic is adjusted (adjusting a gain speech parameter at a relay device, Col. 9, Line 35- Col. 10, Line 25; Col. 27, Line 40- Col. 29, Line 10; Col. 31, Lines 12-53),

Wherein the processor adjusts the first characteristic without decoding said compression code (partial decoding of speech parameters, Col. 33, Lines 42-65).

A transmitter to transmit digital signal with adjusted first bits and second bits to a device to produce a corresponding audible signal with the first characteristic in the adjusted state (Fig. 13).

Yajima does not explicitly recite the combination of a compression code and a linear code to express a speech signal, however, such a coding scheme is well known in the prior art as is evidenced by the AAPA. The AAPA recites a TFO GSM standard using a combination of coded speech and PCM bits ("TFO standard", Page 25, Line 21- Page 26, Line 4).

Yajima and the AAPA are analogous art because they are from a similar field of endeavor in speech compression. Thus, it would have been obvious to a person of ordinary skill in the art, at the time of invention, to modify the teachings of Yajima with the TFO GSM standard recited in the AAPA in order allow Yajima's gain controller to comply with well-known cellular network standards (AAPA, Page 25, Lines 21-22).

With respect to Claims 26 and 56, AAPA recites:

The linear code comprises PCM code (PCM samples, Page 26, Line 4).

With respect to Claims 27 and 57, Yajima discloses:

The first characteristic comprises audio level (gain parameter which is indicative of an audio level, Col. 9, Line 35- Col. 10, Line 25; Col. 27, Line 40- Col. 29, Line 10; Col. 31, Lines 12-53).

With respect to **Claims 28 and 58**, the AAPA recites the TFO GSM standard as applied to Claims 26 and 57.

With respect to **Claims 29 and 59**, the AAPA further recites first bits comprising the two LSBs and second bits comprising 6 MSBs (*Page 26, Lines 2-3*).

With respect to **Claims 30 and 60**, the AAPA further recites the use of PCM code for the 6 MSBs (*Page 26, Lines 2-3*).

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Conclusion

14. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

- 15. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: See PTO-892.
- 16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to James S. Wozniak whose telephone number is (571) 272-7632. The examiner can normally be reached on M-Th, 7:30-5:00, F, 7:30-4, Off Alternate Fridays.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Edouard can be reached at (571) 272-7603. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/James S. Wozniak/ James S. Wozniak Patent Examiner, Art Unit 2626

/Patrick N. Edouard/ Supervisory Patent Examiner, Art Unit 2626